

SALOV, Ye.M.; ZAYKOV, M.A.; TSELUYIKOV, V.S.; KUZNETSOV, A.F.; KAMINCKIY,D.M.;
MAZURIK, P.N.

Improving the production technology in the sheet-rolling plant
of the Kuznetsk Metallurgical Works. Biul. tekhn.-ekon. inform.
Gos. nauch.-issl. inst. nauch. i tekhn. inform. 18 no.10:5-6
0 '65. (MIRA 18:12)

KOLAEYKOV, V. S.; ZAYKOV, M. A.; FEDOROV, N. A.

Distribution of torque in the spindles of two-high reversing
medium sheet mills. Itev. vys. ucheb. zav.; chern. met. 7 no.6
109-113 '64. (MIR: 17:7)

i. Sibirskiy metalurgicheskiy institut.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1

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CIA-RDP86-00513R001756930009-1"

Tseluyko Yu.I.

91-2-7/27

AUTHOR:

Yeliseyev, B.V., Suloyev, V.A. & Tseluyko Yu.I.

TITLE:

Evaporative cooling of slider pipes (in furnaces), using natural circulation. (Isparitel'noye okhlazhdeniye glissazhnykh trub na yestestvennoy tsirkulyatsii.)

PERIODICAL: Promyshlennaya Energetika, 1958, Vol.13. No.2. pp. 19-21 (U.S.S.R.)

ABSTRACT:

In recent years extensive use has been made of evaporative cooling of various parts of industrial furnaces. Forced circulation is often used to cool the tubes at the bottom of heating furnaces on which the heated materials slide. However, it is possible, and simpler, to use natural circulation for this purpose. In 1955-56 the Gorky Metallurgical Works introduced evaporative cooling on two furnaces attached to a rolling-mill, that were used to heat ingots weighing up to 1,350 kg. Each furnace burns 800 kgs. per hour of fuel oil. The system is illustrated diagrammatically and contains four parallel circuits. Forced circulation was used, with safeguards against pump failure. The possibility of a natural circulation system was investigated, and its merits are discussed. Natural circulation tests were made on the furnaces. The furnace life is divided into three periods characterised by different cooling conditions: the first is when the furnace is new, the thermal insulation is in good condition and the thermal loading is relatively light; then there is a long period during which thermal loadings

Card 1/2

94-2-7/27

Evaporative cooling of slider pipes (in furnaces), using natural circulation.

are intermediate; finally there is a period immediately preceding shut-down for repair, during which the thermal loading is heavy. Cooling conditions in each of these phases are discussed. The natural circulation scheme was found to simplify the hydraulic and electrical circuits, and to reduce first and operating costs, besides making the cooling more reliable. There is 1 figure.

AVAILABLE: Library of Congress.

1. Furnaces-Design

Card 2/2

TSELUYKO, Yu.I.; SADAKH, A.F.; BOBOSHKO, V.S.; DODOT'A, V.G.; LIKHININ, A.I.;
Prinimali uchastiye: PEKKER, A.N.; LOLA, V.N.; KSENZUK, F.A.;
BONDAREV, L.V.; REZNIKOV, Yu.N.; KLEKL', A.E.

Study of the heating of metal in a holding furnace. Stal' 25
no.5:462-464 My '65. (MIRA 18:6)

1. Nauchno-issledovatel'skiy i proyektnyy institut metallurgicheskoy
promyshlennosti.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1

Chern, M. A., Dzh.; Kh. KIRKOROV, Yu. N., Dzh.; V. I. KARABYANOV, Dzh.
I. I. POLYKO, Yu. I., Dzh.

Minimizing and use of the role of steel-melting equipment. From: energetika
19 no.11:2-6 N '64. (MKR 18:1)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1"

TSRELUYKO, Yu.I.; KATSEIELENBOGEN, L.B.; RUDNITSKIY, Ya.N.

Calculation of heat absorption of hearth tubes in heating
furnaces. Stal' 21 no.8:753-757 Ag '61. (MIR 14:9)

1. Gosudarstvennyy institut po proyektirovaniyu metallurgiches-
kikh zavodov i predpriyatiy.
(Furnaces, Heating)

ANDON'YEV, Sergey Mikhaylovich, doktor tekhn. nauk. Prinimali uchastiye:
BELAN, F.I., inzh.; MALAMUD, Ye.A.; TSELUYKO, Yu.I., inzh.; KER-
ZHNER, S.M., inzh.; SIRENKO, B.M., inzh.; FILIP'YEV, O.V., inzh.;
KOCHO, V.S., doktor tekhn. nauk, prof., retsentrant; NITSKEVICH, Ye.A.,
red.; YEZDOKOVA, M.L., red. izd-va; DOBUZHINSKAYA, L.V., tekhn. red.

[Evaporation cooling of metallurgical furnaces] Isparitel'noe okh-
lazhdenie metallurgicheskikh pechei; osnovnye polozheniya. Moskva,
Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii,
1961. 447 p. (MIRA 14:10)

(Metallurgical furnaces—Cooling)

AIDON'YEV, S.M., doktor tekhn.nauk; TSELYUKO, Yu.I., inzh.; RUDNITSKIY, Ya.N.,
inzh.; KATSENELENBOGEN, L.B., inzh.; PRIGORSKAYA, A.D., inzh.;
KURUZNYAK, I.S., inzh.

Investigating experimental contours with natural circulation of water
in the chimney of an oxygen-blown converter. Stal' 23 no.7:6(4-667
Jl '63. (MIRA 16:9)

1. Gosudarstvennyy institut po proektirovaniyu predpriyatiy po
proizvodstvu stali i Krivorechskiy metallurgicheskiy zavod.
(Converters--Cooling)

1.6.757

ANDON'YEV, S.M.; ZHLOBINSKIY, Ye.I.; YUR'YEV, M.A.; STRUGATSKIY, L.F.;
YELISEYEV, B.V.; TSELUYKO, Yu.I.; SUVOROV, A.I.; FILIP'YEV, O.V.;
KALASHNIKOV, P.A.; L'VOV, V.N.; SULOV, V.A.

Evaporation cooling of rolling-mill heating furnaces in open-hearth-
furnace plants and complex utilization of secondary power resources
Prom. energ. 14 no.1:37-39 Ja '59. (MIRA 12:1)
(Furnaces, Heating) (Boilers)

YELISEYEV, B.V.; SULOV, V.A.; TSIULIKO, Yu.I.

Evaporative cooling of skids with natural circulation. Prom.
energ. 13 no. 2:19-21 F '58. (MIRA 11:1)
(Furnaces--Cooling)

Tseluyko, Yu. I.

ANDON'YEV, S.M., kandidat tekhnicheskikh nauk; BIRMAN, B.I., inzhener;
FILIP'YEV, O.V., inzhener; Tseluyko, Yu.I., inzhener.

Evaporation cooling of rolling mill heating furnaces. Stal'
15 no.12:1129-1135 D '55. (MLRA 9:2)

1.Giprostal'.
(Rolling mills) (Furnaces)

ANDON'YEV, S.M., doktor tekhn. nauk; TSELUYKO, Yu.I., inzh.; RUDNITSKIY,
Ya.N., inzh.; KOTEN, M.G., inzh.

Lead-off of converter gases without burning them in the combustion
chamber. Prom. energ. 18 no.6:17-21 Je '63. (MIRA 16:7)

(Steel--Metallurgy)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1

KOLOBKOV, P.B., doktor tekhnicheskikh nauk; TSEMLUYKO, Yu.I., kand.

Boiler water accumulators in converter-type white heat boilers.
Energ. i elektrotekh. prom. no.4:24-26 RUD '61.

(MIRA 18:3)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1"

ANDON'YEV, S.M., doktor tekhn.nauk; TSELUYKO, Yu.I., inzh.; RUDNITSKIY, Ya.N.,
inzh.; KATSENELENBOGEN, L.B., inzh.

Selection of an efficient grouping of complex installations for
evaporation, cooling and waste heat boilers for heating furnaces.
Stal' 24 no.7:664-667 Jl 164. (MIRA 18 1)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1

ANDON'YEV, S.M., doktor tekhn.nauk; TSELUJKO, Yu.I., inzh.; FAYERBETSYN, A.P.,
inzh.

Evaporative cooling of large holding furnaces. Prom. energ. 20
no.7:39-43 Jl '65. (MIR 18:12)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1"

GOLUBEV, T.M., prof., doktor tekhn.nauk; TSELUYKOV, V.S., inzh.

Transverse flow of material in contact with the focal point of
strain in rolling. Izv.vys.ucheb.zav.; chern.met. no.10:105-112
O '58. (MIRA 11:12)

1. Kiyevskiy politekhnicheskiy institut i Sibirskiy metallurgicheskiy
institut.
(Rolling (Metalwork))

ZAYKOV, M.A., kand.tekhn.nauk, dots.; TSELUYKOV, V.S., inzh.; PERMYAKOV,
V.M., inzh.; TERESHIN, G.G., inzh.

Automatic measurement of forces in rolling as basis for im-
proving the conditions of reduction. Izv.vys.ucheb.zav.:
chern.met. 2 no.6:53-62 Je '59. (MIRA 13:1)

1. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgi-
cheskiy kombinat. Rekomendovano kafedroy obrabotki metallov
davleniyem Sibirskego metallurgicheskogo instituta.
(Rolling (Metalwokr))

ZAYKOV, M.A.; TSELUYKOV, V.S.; KAMINSKIY, D.M.; DADOKHIN, N.V.;
MESHCHEYAKOV, P.A.; MARININ, P.G.; MIRENSKIY, M.L.; PROKOP'YEV,
A.V.; OVCHINNIKOVA, R.F.; Prinimali uchastiye; BELYAVSKIY, M.A.;
KAFTANOV, M.P.; KUCHKO, I.I.; LAR'KINA, F.Ye.; MANCHEVSKIY, I.V.;
MARAMYGIN, G.F.; MERKUTOV, V.N.; NASIBULIN, A.S.; NEFEDOV, M.K.;
PERMYAKOV, V.M.; CHELYSHEV, N.A.; CHVANOV, L.K.

Investigating conditions of rolling on three-high billet mills.
Izvy vys. ucheb. zav.; chern. met. 6 no.10:74-83 '63.

(MIRA 16:12)

1. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy
kombinat.

ZAYKOV, M.A.; TSELUYKOV, V.S.

Calculating efficient reduction conditions for hot rolling mills.
Izv. vys. ucheb. zav.; chern. met. 6 no.8:107-114 '63.
(MIRA 16:11)

1. Sibirskiy metallurgicheskiy institut.

TSELUYKOV, V.S.

All-Union conference on increasing the output of metallurgical units. Izv. vys. ucheb. zav.; chern. met. no.8;202-205 '60.
(MIRA 13:9)

1. Sibirskiy metallurgicheskiy institut.
(Metallurgical plants—Production standards)

S/148/60/000/008/012/018
A161/A029

AUTHOR: Tseluykov, V.S.

TITLE: All-Union Conference on Raising the Productivity of Metallurgical Works

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. - Chernaya metallurgiya, 1960, No. 8, pp. 202 - 205

TEXT: A conference on raising the productivity of the metallurgical industry by the application of new electric drive systems and comprehensive automation was convened on March 4 - 10, 1960, in Stalinsk. It was organized by the Gosudarstvennyy nauchno-tehnicheskiy komitet Soveta Ministrov SSSR (GNTK) (Scientific-Technical State Committee of the USSR Council of Ministers, GNTK), jointly with the Tsentral'nyy institut nauchno-tehnicheskoy informatsii elektrotehnicheskoy promyshlennosti i priborostroyeniya (Central Institute of Scientific and Technical Information of the Electric and Instrument-Manufacturing Industry, TsINTI Elektroprom), Kemerovskoye pravleniye NTO elektricheskoy promyshlennosti (Kemerovo Scientific-Technical Association Board of the Electric Industry) and the Kemerovskiy sovnarkhoz (Kemerovo Sovnarkhoz). About 200 delegates from 80 organizations participated and 40 reports were read. The information is in the form Card 1/4

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A161/A029

All-Union Conference on Raising the Productivity of Metallurgical Works

of a general listing of the problems discussed and major features of new equipment used at some works, without report titles. In the field of blast furnace production, reports were made on automatic temperature measurements at different spots; measurements of static pressure in the furnace charge at 8 - 10 m level below the top, and the pressure drop between different levels; The application of blast-furnace controlling computer was suggested. Remote automatic control of turboblowers and automatic control of recuperators and other auxiliary blast furnace equipment was discussed. The reports on open-hearth process problems, concerned the operation of automatic control systems existing at MMK, KMK, NTMK, "Zaporozhstal" and the works imeni Dzerzhinskogo (Dzerzhinsky), Alchevsk, and Makeyevka. It was stated that the automation of open-hearth furnaces is on a level not below that of the USA. A new control system is developed with electric elements, ferrodynamic pickups and contactless regulators. Experiments are planned with a correcting regulator that will react to increased CO separation from metal and automatically cut fuel feed. In hot rolling, automation of blooming mills, continuous sheet mills, three-high Laut mills for nonferrous metals, of heating equipment (soaking pits, methodical furnaces) was discussed. A report was made by N.N. Druzhinin and A.G. Mirer on the results of an experimental investigation of a five-stand tin sheet mill of MMK that has been comprehensively Card 2/4

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A161/A029

All-Union Conference on Raising the Productivity of Metallurgical Works

automated. The data were used for designing automatic systems for controlling the thickness and tension of strip, as well as for comprehensive automation. A report was made by R.V. Lyambakh - "Automatic Control of Strip Thickness in Hot and Cold Thin Sheet Rolling Mills". The report included the discussion of contact-less thickness meters ИТУ-495 (ITU-495), ИТШ-496 (ITSh-496), ИТГ-435 (ITG-435) etc. The TSLA has provided metallurgical works with many such devices since 1953 (the devices work by radioactive radiation). Other reports concerned the attempted application of a controlling computer in continuous hot mills. One self-adjusting system was discussed in which an X-ray thickness-meter placed after the last mill stand continually signals thickness deviations into a computer and the computer gives commands for setting the space between the rolls; another system discussed is used for maintaining the preset inter-roll space in the finishing stands group by means of rheostat pickups measuring the position of the upper roll, and dynamometers measuring the pressure on the rolls. Information was presented on a measuring regulator for the tension in cold and hot rolling; on an automatic control system for the Laut three-high mill (at the Kol'chuginskiy zavod - Kol'chugino Works) in the Vladimir Sovnarkhoz Administrative Area; on radio control of soaking pits from an overhead traveling crane at the Chelyabinsk metallurgicheskiy zavod (Chelyabinsk Metallurgical Works). A

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All-Union Conference on Raising the Productivity of Metallurgical Works

delegate from Uralmashzavod reported on the project of a blooming mill for the Zapadno-Sibirskiy metallurgicheskiy zavod (West-Siberian Metallurgical Works). It includes ingot cars running on a circular way, flame scaling of ingots on the way, an automatic marker, contactless lengths measuring and automatic cutting of metal into lengths, etc. The lack of instruments for measuring metal temperature in heating furnaces and in rolling was mentioned to be an obstacle for automation. N.A. Tishchenko compared in his report the designs, the quality and the operation costs of motors produced in the USSR, USA, France, Britain and Germany.

ASSOCIATION: Sibirskiy metallurgicheskiy institut (Siberian Institute of Metallurgy)

SUBMITTED: March 21, 1960

Card 4/4

TSELUYKOV, V.S.; PERETYAT'KO, V.N.; KAMINSKIY, D.M.; MERKUTOV, V.N.

Potentialities for increasing the output of medium sheet mills.
Izv.vys.ucheb.zav.; Chern.met. 8 no.6:113-117 '65.

1. Sibirsckiy metallurgicheskiy institut.

(MIRA 18:8)

GOLUBEV, T.M., doktor tekhn. nauk, prof.; TSCHLUYKOV, V.S., inzh.

Longitudinal displacement of the material in contact areas of the deformation center during rolling. Izv. vys. ucheb. zav.; chern. met. no.4:91-101 Ap '58.
(MIRA 11:6)

1. Kiyevskiy politekhnicheskiy institut i Sibirskiy metallurgicheskiy institut.
(Rolling (Metalwork)) (Deformations (Mechanics))

ZAYKOV, M.A., kand.tekhn.nauk, dotsent; TSELUIKOV, V.S., inzh.; KAMINSKIY,
D.M., kand.tekhn.nauk, dotsent; PERETYAT'KO, V.N., inzh.; KAPTANOV,
M.P., inzh.; PERMYAKOV, V.M., inzh.; PROKOP'YEV, A.V., inzh.

Investigating and improving cogging conditions of sheet rolling
mills. Izv. vys. ucheb. zav.; chern.met. no.5:131-144 My '58.
(MIRA 11:7)

1. Sibirskiy metallurgicheskiy institut.
(Rolling mills)

TSELUYKOV, V.S.; ZAYKOV, M.A.; KAMINSKIY, D.M.

Power conditions of deformation during the rolling of thick
plate. Izv. vys. ucheb. zav.; chern. met. 6 no.6:88-95 '63.

1. Sibirskiy metallurgicheskiy institut.
(Rolling (Metalwork))
(MIRA 16:8)

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CIA-RDP86-00513R001756930009-1

TSELYAK, A.V.

Automatic nut-trimming machine. Biul.tekh.-ekon. inform. Gos.
nauch.-issl. nauch. i tekhn. inform. 17 no.9:34-36 S '64
(MIRA 18:1)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1"

AUTHORS: Nenich, V.N., Drinfel'd, P.I., Tselykovskaya, N.K. 68-58-3-11/22
and Pristavko, F.I.

TITLE: Effluents from the Indene-Coumarone Resin Plant and
Possibilities of Their Purification (Stochnyye vody tsekh
Inden-Kumarcnovykh smol i vozmozhnosti ikh obezvrezhivaniya)

PERIODICAL: Koks i Khimiya, 1958, Nr 3, pp 40 - 44 (USSR).

ABSTRACT: Biological treatment of coke oven effluents deteriorated
when the effluent from the Indene-Coumarone Resin Plant was
added. Methods of pre-treatment of this effluent were investi-
gated. It was found that the best results are obtained when the
neutralised effluent is passed through a vacuo-filter in order
to separate aluminium hydroxide (derived from aluminium chloride,
the catalyst used for polymerisation), then into a settling
tank for the separation of benzole. After the separation of
benzole, the effluent is passed into the biological treatment
(Fig. 5) is being designed. There are 4 tables and 5 figures.

ASSOCIATION: Kadiyevskiy koksokhimicheskiy zavod (Kadiyevka Coke
Card 1/1
Oven Works)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1"

S/068/60/000/001/006/006
E071/E433

AUTHORS:

Grebinnik, Z.G. and Tselykovskaya, N.K.

TITLE:

Photocolorimetric Determination of the Colour of Clear
Indene Coumarone Resins [2]

PERIODICAL: Koks i khimiya, 1960, No.1, pp.51-52

TEXT: The usual determination of the colour is done by comparing the colour of a 10% solution of resin in benzene with a standard iodometric scale. The latter is in the form of series of standards prepared by the dilution of an iodine solution containing 4000 mg of iodine in 100 ml of a 10% solution of potassium iodide. To obtain a more objective comparison the authors propose the use of a photocolorimeter type OK-M (FEK-M). The experimental procedure is described in some detail. Calibration graphs are given. A comparison of visually and photocolorimetrically determined colours of a number of resins is given in the table. A greatly improved accuracy is claimed. It is stated in the editorial note that the method should be checked in works and institutes. There are 3 figures and 1 table.

ASSOCIATION: Kadiyevskiy koksokhimicheskiy zavod (Kadiyevka
Card 1/1 Coking Works)

MENICH, V.N.; DRINFEL'D, P.I.; TSELYKOVSKAYA, N.K.; DAKHNEKO, N.Ya.

Dephenolization of waste waters from recovery plants by the "microbe
method." Koks i khim. no.1:38-41 '60. (MIRA 13:6)

1. Kadiyevskiy koksokhimicheskiy zavod.
(Kadiyevka--Sewage disposal)
(Phenols)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1

~~SECRET~~
NENICH, V.N.; DRINFEL'D, P.I.; TSMLYKOVSKAYA, N.K.; PRISTAVKO, F.I.

Waste water from the coumarone-indene resins section and possi-
bilities for its decontamination. Koks i khim. no.3:40-44 58.
(MIRA 11:3)

1. Kadiyevskiy koksokhimicheskiy zavod.
(Coke industry--By-products)
(Sewage--Purification)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1"

TSELYKOVSAYA, Yevgeniya Alekseyevna; SUVOROV, I.V., red.; ZHUKOVA,
Ye.G., tekhn. red.

[Collective farm trade and its significance for the national
economy] Kolkhoznaia torgovlia i ee narodnokhoziaistvennoe
znachenie. Leningrad, Izd-vo Leningr. univ., 1961. 32 p.
(MIRA 15:3)

(Farm produce—Marketing)

112561-65
Copy 1/2

Title: Microwave subharmonic oscillator in phase quantization mode

SOURCE: IVUZ, Radiofizika, v. 7, no. 4, 1964, 800-803

TOPIC TAGS: parametric oscillator, phase quantization, microwave oscillator, pump frequency, frequency conversion

Abstract: A method is described for generating a continuous synchronous signal using a parametric subharmonic oscillator. The method involves the generation of a pump wave

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ACCESSION NR: AP4048276

ing principle is based on the use of quantization for the measurement of stationary unipolarized phase distribution laws developed by Agranov and others (Zh. vysokoch. zav. - Radiotekhnika v. 4, No. 1, 1964).

v. 9, 822, 1964). Most tests were made with amplitude modulation of the pumping power, although phase modulation and modulation of the

10-11 W is obtained for the limiting sensitivity of the generator.

ASSOCIATION: Moshkovskiy Gosudarstvennyy universitet (Moscow State

University)

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L 13561-65
ACCESSION NR: AP4048276

SUBMITTED: 29Jan64

ENCL: 01

SUB CODE: EC

NR REF SOV: 006

OTHER: 000

Card 3/4

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L 13561-65

ACCESSION NR: AP4048276

DATA TYPE: D

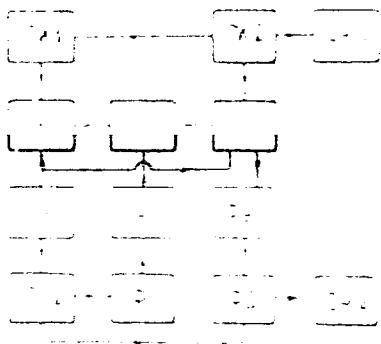


FIG. 1. Block diagram of experimental setup

PG - pulse generator, PM - pumping generator,
M - pumping modulator, A - attenuator, G -
glass cell, PG - pulse generator, I -
isolator, VA - variable attenuator, D - detector.

Card 4/4

VOLOKITIN, A., prepodavatel'; KALININ, I., prepodavatel'; TSILYKOVSKIY, P.,
prepodavatel'

A new textbook ("Economics and planning of public food service" by
F.IA. Uspenskii and others. Reviewed by A. Volokitin, I.Kalinin,
P. TSelykovskii). Sov.torg 34 no.3:47-48 Mr '61. (MIRA 14:2)

1. Leningradskiy institut sovetskoy torgovli im. Engel'sa.
(Restaurants, lunchrooms, etc.—Textbooks)
(Uspenskiy, F.IA.) (Kvitnitskaia, R.H.) (Volkov, K.D.)

VASIL'YEV, A.; VOLOKITIN, A.; TSELYKOVSKIY, P.; LOTOREV, D.; GAGLOYEVA, N.;
KRYUKOVA, T.; CHIKOVA, N.

Second edition of a handbook on the economics of Soviet trade
("Economics of Soviet trade." Reviewed by A. Vasil'ev and others).
Sov.torg. 33 no.6:62-64 Je '60. (MIRA 13:7)

1. Prepodavateli kafedry ekonomiki Leningradskogo instituta sovetskoy
torgovli.
(Russia--Commerce)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1

KOYSMAN, Ye.; TSELYKOVSKIY, P.

Self-service variety stores. Sov. torg. no. 7:36-38 Jl '58.
(MIRA 11:7)
(Variety stores)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1"

TSELYKOVSKIY, P.G., agronom

Advanced seed controlling laboratories. Zemledelie 24 no.3:81-82
Mr '62. (MIRA 15:3)
(Seed adulteration and inspection)

TSELYKOVSKIY, P.G.

Beacon lights of the Volga region--participants in the Exhibition
of Achievements of the Soviet National Economy. Zemledelie 23
no.6:65-68 Je '61. (MIRA 14:6)
(Volga Valley--Agriculture)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1

TSELYKOVSKIY, P.G.

Good seeds are the basis for good harvests. Standartizatsia 28
no. 8:48-50 Ag '64.
(MIRA 17:11)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1"

IZBAVITELEV, P.V.; MOGILEVCHIK, Z.K.; PASHKOVSKAYA, G.I.; TARDIOV, V.I.;
TSELYUKO, I.G.

Street noise in Minsk. Zdrav. Bel. 7 no.8:46-49 Ag '61. (MIA 15:2)

1. Iz kafedry obshchey gigiyeny Minskogo meditsinskogo instituta
(zav.kafedroy - prof. Z.K.Mogilevchik) i Belorusskogo sanitarno-
gigienicheskogo instituta (direktor - doktor meditsinskikh nauk
P.V.Ostapenya).

(MINSK NOISE CONTROL)

TSELYUKO, N.A.

Electrical conductivity of sap as indicator of the physiological condition of grapevines. Trudy VNIIIViV "Magarach" 8:213-220 '59.
(Grapes) (MIRA 14:1)
(Electrophysiology of plants)

TSELUYKO, R.A.

Characteristics of the course of retrocecal appendicitis according to clinical data for a ten year period (1949-1958). Med. zhur. Uzb. no.11: 54-56 N '61. (MIRA 15:2)

1. Iz khirurgicheskogo otdeleniya Klinicheskoy bol'nitsy neotlozhnoy pomoshchi (glavnyy vrach - T.Sh. Alimov, konsultant - prof. S.A.Masumov). (APPENDICITIS--CASES, CLINICAL REPORTS, STATISTICS)

TSELYUKO, N.A.

Optimal time for the removal of the apical buds of terminal
shoots of the apple tree ~~for~~ the purpose of yield increase.
Fiziol. rast. 11 no.5:916-919 S-O '64. (MIRA 17:10)

1. Opytnaya stantsiya sadovodstva, Krym, poselok Gvardeyskoye,
Bakhchisarayskoy oblasti.

3/276/63/uuu/uu1/uu6/u2d
A006/A101

AUTHORS: Kazarnovskiy, D. S., Legeyda, N. F., Tseluyko, V. I.

TITLE: Strengthening heat treatment of low-carbon steel, containing arsenic

PERIODICAL: Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 1, 1963,
40, abstract 1B207 ("Sb. tr. Ukr. n.-i. in-t metallov" 1962, no. 8,
318 - 326)

TEXT: The investigation was made on rolled 3 (St. 3kp) steel sections. The steel was melted in 350-ton tilting open-hearth furnaces on phosphorous iron of the following composition: (in%) C 0.16 - 0.17; S 0.028 - 0.058; P 0.021 - 0.031; Mn 0.44 - 0.50; Si 0 - 0.15; As 0.06 - 0.13. The mechanical properties were tested; the toughness of the steel was determined prior and after aging; the dependence of toughness upon test temperature and the condition of the steel was also determined (after rolling, after rolling and aging, heat treatment, and heat treatment and aging). The fatigue strength of the steel in the initial and thermally improved state was also determined. The authors studied the effect of welding upon the properties of thermally strengthened steel, containing arsenic; they

Card 1/2

Strengthening heat treatment of...

8/276/63/000/001/006/028
A006/A101

determined the toughness of specimens prior and after electric welding. As a result of the investigation performed it was established that rimming steel (St.3) and killed steel (St.3sp) containing up to 0.15% As, were considerably improved after quenching from 910°C, ductility and toughness being satisfactory. Welding does not impair the strength characteristics of the steel obtained by quenching. There are 5 figures and 6 references.

T. Kislyakova

[Abstracter's note: Complete translation]

Card 2/2

ZAYKOV, M.A.; TSELUYKOV, V.S.; KAMINSKIY, D.M.; DADOKHIN, N.V.; LAR'KINA, F.G.; MECHCHERYAKOV, P.A.; Prinimali uchastiye: PERMYAKOV, V.M.; MERKUTOV, V.N.; PROKOF'YEV, KAFNAOV, M.P.; MARAMYGIN, G.I.; ZHURAVLEV, M.A.; MARININ, P.G.; NASIRUDIN, A.S.; MANCHEVSKIY, I.Y.; FEIYAVSKIY, M.A.; SERGEYEV, V.V.; CHVANOV, L.K.; KOBYLEV, V.K.; KUCMKO, I.I.; MIRENSKIY, M.L.

Pressure of the metal on rolls in rolling carbon and alloyed steels on a three-high billet mill. Izv. vys. ucheb. zav.: chern. met. no.8:78-83 'Kl. (MIR. 14:9)

1. Sibirskiy metallurgicheskiy institut.
(Rolling mills)

TROFIMENKO, I.T.; TSELYKOVSKIY, A.F.

Subharmonic oscillator in the super-high frequency range under conditions
of binary phase quantization. Izv.vys.ucheb.zav.; radiofiz. 7 no.4:800.
803 '64.
(MIIKA 18:1)

1. Moskovskiy gosudarstvennyy universitet.

TSELYKOVSKIY, P.F., kand. ekon. nauk; VOLOKITIN, A.S., dots., kand. ekon.
nauk, otd. red.; BELOBORODKO, I.B., tekhn. red.

[Public dining facilities] Obshchestvennoe pitanie; uchebnoe po-
sobie po kursu "Ekonomika obshchestvennogo pitanija." Leningrad,
Leningr. in-t sovetskoi torgovli im. F. Engel'sa, 1962. 89 p.
(MIRA 16:2)

(Restaurants, lunchrooms, etc.--Management)

ANDON'YEV, S.M., doktor tekhn.nauk; TSELYUKO, Yu.M., inzh.;
KATSENELENBOGEN, L.B., inzh.; MOSTITSKIY, A.V., inzh.;
RUDNITSKIY, Ya.N., inzh.; PEVKO, A.P., inzh.; TRUSH, V.I., inzh.

Investigating thermal processes in converter "caissons" and
chimneys. Stal' 22 no.2:173-176 F '62. (MIRA 15:2)

1. Gosudarstvennyy institut po proyektirovaniyu metallurgiches-
kikh zavodov i predpriyatiy.

(Bessemer process)
(Heat—Transmission)

GORB, T.V. [Horb, T.V.], doktor sel'skokhoz.nauk; TERESHCHENKO, F.K., kand.biolog.nauk; BOGATYSHKIY, O.T. [Bohaievs'kyi, O.T.], kand.veterin.nauk; POTYEMKIN, M.D. [Pot'omkin, M.D.], akademik; KNIGA, M.I. [Knyha, M.I.]; POPOV, O.Ya., kand.sel'skokhoz.nauk; KHMELIK, G.G. [Hmelyk, H.H.], kand.sel'skokhoz.nauk; SHRAM, I.P., kand.sel'skokhoz.nauk [deceased]; KOPIL, A.M., kand.sel'skokhoz.nauk; TSALYUTIN, V.K., kand.sel'skokhoz.nauk; BOZHKO, P.Yu., doktor sel'skokhoz.nauk; KROMIN, S.S., kand.sel'skokhoz.nauk; ZEMLIANSKIY, V.M. [Zemlians'kyi, V.M.], kand.sel'skokhoz.nauk; BORISENKO, A.M. [Borysenko, A.M.], kand.biolog.nauk; ZAKHARENKO, V.B., kand.biolog.nauk; SMIRNOV, I.V. [Smirnov, I.V.], kand.biolog.nauk; KHRABUSTOVSKIY, I.F. [Khrobustovs'kyi, I.F.], kand.biolog.nauk; TORSTYANETS'KA, M.N. [Trostianets'ka, M.N.], assistent; ALESHKO, P.I., inzh.; VASIL'YEV, Vasyl'iev, O.F., kand.tekhn.nauk; BUGAYENKO, I.I. [Buhaienko, I.I.], starshiy prepodavatel'; TRAKHTOMIROVA, O.O., kand.ekonom.nauk; BUTKO, S.D., kand.ekonom.nauk; TELESHIK, K.G. [Teleshyk, K.H.], doktor ekonom.nauk; YAROSHENKO, V.D., kand.ekonom.nauk; LISIY, I.Y. [Lysyi, I.I.], red.; YEROSHENKO, T.G. [Yeroshenko, T.H.], tekhn.red.

[Handbook for zootechnicians] Dovidnyk zootekhnika. 2., dopovnene i pereroblene vyd. Kyiv, Derzh.vyd-vo sil's'kohospodars'koi lit-ry URSR, 1960. 728 p. (MIRA 15:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina (for Potemkin). 2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Kniga). (Stock and stock breeding)

TSIMA, V., prepodavatel'.

Put in order the salary system for automobile school teachers.
Avt. transp. 36 no.3:28 Mr '58. (MIRA 11:3)

1. Kiyevskiy oblastouchekombinat.
(Teachers--Salaries, pensions, etc.)

TSEMAKHOV, G.Ya; KUTUZOV, I.I.

Intratracheal anesthesia during the analgesic stage. Zdrav.Bel.
9 no.2 il4-16 F'63. (MIRA 16:7)

1. Nauchnyy rukovoditel'-prof. A.M.Boldin; glavnnyy vrach
Glubokskoy meshrayonnoy bol'nitsy C.Ya.Tsemakhov.
(INTRATRACHEAL ANESTHESIA)

TSEMKALO, M.F.

Measurement of an elliptically polarized electrical field. Geofiz.
sbor. no. 7:160-162 '64. (MIRA 17:11)

1. Dnepropetrovskiy gornyy institut imeni Artema.

SOV/123-59-15-59539

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, p 94 (USSR)

AUTHOR: Tsemakhovich, A.D.

TITLE: A Device for the Burring of Machine Parts of Non-Ferrous Alloys

PERIODICAL: Prom. Altay (Sovnarkhoz Altayskogo ekon. adm. r-na), 1958, Nr 2, p 46

ABSTRACT: A device is described which was introduced at the Barnaul Mechanical Instrument Plant for the mechanical burring after the milling of squares or face slots of round machine parts. This operation was formerly effected by hand. The device is fitted with a feeding installation and with an attachment for the automatic transportation of the machined parts from the machining area. 1 figure.

B.I.L.

Card 1/1

TSEMAKHOVICH, A.D., inzhener.

Reducing auxiliary time in machining on turret lathes. Mashino-stroitel' no.8:13 Ag '57. (MLRA 10:8)

1. Barnaul'skiy apparaturno-mekhanicheskiy zavod.
(Lathes--Attachments)

TSEMAKHOVICH, Abram Davidovich; YEL'KOV, F., red.; ZHDANOVA, G., tekhn.
red.

[Improving technological processes in the manufacture of machinery]
Opyt raboty po sovershenstvovaniyu tekhnologii v mashinostroenii.
Barnaul, Altaiskoe knizhnoe izd-vo, 1960. 96 p. (MIRA 14:10)
(Machinery industry—Technological innovations)

TSEMAK CVICH, R., inzh.

Improving production of silicalcite construction elements. Stroi.
mat. 4 no. 6:11-16 Je '58. (MIRA 11:7)
(Silicates)
(Concrete plants--Equipment and supplies)

TSEMAKHOVICH, B.D.

Machinery industry workers of Altai Territory help
agricultural workers. Mashinostroitel' no.9:6-7 S '62.(MIRA 15:9)
(Altai Territory--Farm mechanization)

KORMILITSYN, S.P.; TSEMEKMAN, L.Bh.; SHUMOV, M.M.; ANDREYEV, T.V.;
MARKIN, A.A.; MAZUN, A.I.

Treatment of iron nickel ore in a converter by top blow of
oxygen. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. i
tekhn.inform. no.3:3-5 '63. (MIRA 16:4)

(Nickel—Metallurgy)

TSEMEKMAN, V.

Industar-61, an objective made of lanthanum lenses. Sov.
foto 23 no.6:32 Je '63. (MIRA 16:7)

(Photography—Apparatus and supplies)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1

TSEMEL', G.I.

"Band Filters With Combined Feedback"
Symposium of scientific works on wire communications, Academy of Sciences USSR, 1949

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1"

TSEMEL', G.I.

Combined feedback band filters. Sbor.nauch.rab.po prov.sviazi [no.1]:
141-156 '49. (MIRA 7:5)
(Electric filters)

Tsemel'

32. Signal Distortion Compensation Based on Time Characteristic

"Compensation for Signal Distortions Base on Time Characteristics,"
by G. I. Tsemel', Sbornik Nauchnykh po Provodnoy Svyazi, No 5, 1956.
pp 104-117

This work considers methods of adjusting the channels according to time characteristics based on presentation of the optimum signal as a function of the signal distortion. Expressions are given for determining the time characteristic of the compensating device. Also considered was the question of utilizing a corrective circuit with nonlinear elements.

A corrective circuit is given possessing greater possibilities in comparison with the known circuits. (U)

TSEMEL', G.I.

Systems for reducing the spectra of telephone signals.
Elektrosviaz' 11 no.5:65-70 My '57.
(Telephone)

(MIRA 10:12)

KANDINOV, A.V.; TSEMEL', G.I.

Possibility of narrowing the spectrum of telephone channels by transmitting instantaneous speech frequencies or using frequency dividers. Elektrosviaz' 12 no.8:3-8 Ag '58. (MIRA 11:8)
(Telephone)

T S E M E L I U T

- 6(0) PHASE I BOOK EXPLOITATION Sov/2792
- Akademiya Nauk SSSR. Laboratoriya sistemy peredachi informatsii: Problemy peredachi informatsii, VTP. 2 (Problems of Information Transfer), Nr. 2). Moscow, Izd-vo AN SSSR, 1959. 99 p. Errata slip inserted. 2,000 copies printed.
- Ed. or Publishing House: Ye.K. Vinichenko, Tech. Ed.: Yu. Kuzmin, Editorial Board: J.A. Kharkevich (Resp. Ed.), V.N. Kurnakov, I.A. Ossipovitch, V.N. Roginavich, and V.G. Solomonyov.
- PURPOSE: This collection of articles may be useful to engineers engaged in the design of wire communication systems.
- CONTENTS: The authors discuss the theory of transmission of information and describe methods used in transmission. They consider attenuation of a two-wire line and cable impedance and discuss problems of coding, decoding, and predicting communication systems. They also consider statistical analysis of information and discuss systems used. No personalities are mentioned.
- Sinyay, Ya.O. The Least Error and the Best Method of Transmitting Stationary Information With Linear Coding and Decoding for the Case of Gaussian Communication Channels 40
- The author derives a functional expressing the mean-square error of transmission and obtains the best method of transmiting information with linear coding and decoding, by Gaussian communication channels. There are 3 references, all Soviet (including 1 translation).
- Mazurkin, R.A. Some Problems of Prediction of Communication Signals 49
- The author discusses problems of constructing circuits for signal prediction and analyzes their operation under near-actual operating conditions. He also presents an example of extrapolating a speech signal. There are 11 references: 6 Soviet (including 1 translation) and 5 English.
- Mashkovsky, K.A. Some Problems of the Theory of Coding 57
- The author discusses the principle of communicating, analyzing and comparing of codes. There are 5 references: 3 Soviet and 2 English.
- Gorochik, V.A. Methods of Using Punched-card Computing Machines for Statistical Information Analysis 65
- The author shows the advantage of punched-card computing machines over other types of computers for statistical analysis of information. He also discusses methods of using these machines. There are 3 references, all Soviet.
- Lebedev, D.S. Device for Printing Images on Punched Tape 73
- The author describes a device for printing images on punched tape. The device is used in the study of statistics of television information. It converts a continuous signal obtained from a motion picture into a sequence of binary numbers. There are 2 references, both Soviet.
- Lebedev, D.S. and V.A. Gorochik. Statistical Analysis of Three-letter Combinations of a Russian Text 78
- The authors present methods and results of a study of frequency of three-letter combinations of a Russian text and determine the rate of transmission of telegraph information.
- Solomonyov, S.G. Errors in the Synthesis of Characteristics 81
- The author presents a theoretical proof of the possibility of synthesizing characteristics and analyzes the error of synthesis by means of a delay-line system. There are 5 references.
- Feezis, G.L. Some Problems in the Operation of a Pulse Equalizer 92
- The author derives an expression for determining delay time of a pulse equalizer from the pulse characteristic of a communication channel and describes the nature of equalizer distortions. He also discusses deviations of the attenuator characteristic of an equalizer operating in a linear spectrum. There are 9 references: 3 Soviet and 6 English.

ACC NR: AP/005520

(A)

SOURCE CODE: UR/0113/67/000/001/0037/1339

AUTHORS: Meshcherin, V. T. (doctor of technical sciences); Tsemlan, S.

ORG: Moscow Machine Tool Institute (Moskovskiy stankoinstrumental'nyy institut)

TITLE: Deep drawing of a flat object with cross sections of uneven strength

SOURCE: Avtomobil'naya promyshlennost', no. 1, 1967, 37-38

TOPIC TAGS: metal drawing, metalworking, metal deformation, metal pressing, metal stamping, steel, low carbon steel, lubricating oil/ MS lubricating oil, 10 steel

ABSTRACT: Two techniques were studied for producing uneven strength in the cross sections of low carbon steel stock used in deep drawing. The work was done because of the frequent necessity to draw such steel into deep cylindrical vessels. To perform such a drawing as a single operation requires a drawing coefficient (m_1) of 0.42-0.49. (Here $m_1 = \frac{d_1}{D}$, where d_1 is the diameter of the finished product and D is the diameter of the flat stock.) It is impossible to obtain a $m_1 < 0.5$ without preheating unless the danger zone is strengthened. The tests were performed on a 63-ton double action crank press, using 1.2- to 1.24-mm thick stock. The diameter of the finished vessel was 75 mm, the gap between the punch and the die was 1.40 mm, the radius of curvature of the die was 12 mm, and the lubricant was MS machine oil. From the studies of

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UDC: 621.983:62-41.001.5

ACC NR: AP703520

thickness changes of the material, it was decided to strengthen a circular area of 65-mm inside diameter and 95-mm outside diameter. After mechanical strengthening by a 6--10% cold deformation of the danger zone, a 1-mm thick sheet of 10 steel was drawn with a $m_1 = 0.5$. Ruptured bottoms were found in 80% of the vessels similarly drawn from unstrengthened stock. Further mechanical processing was found ineffective because the increased strength was offset by a reduced thickness. To produce a thickened danger zone, the excess material was cut away. A 20% thickening of the danger zone reduced m_1 from 0.49 to 0.42. Further thickening was ineffective, partially because the location of the danger zone shifted during the drawing operation. Orig. art. has: 3 figures.

SUP CODE: 13/ SUBM DATA: none/ ORIG REF: 005

Card 2/2

TSEMMEL', G.I. (Moskva)

Determination of invariant indications of shot noises by means of
clipped speech signals. Izv. AN SSSR. Otd.tekh.nauk. Energ. i avtom.
no.4:214-215 Jl-Ag '59. (MIRA 12:11)
(Electroacoustics) (Noise, Electrical)

S/024/60/000/005/015/017
E140/E435

AUTHOR: Tsemel', G.I. (Moscow)

TITLE: Automatic Discrimination of a Limited Vocabulary ^b

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1960, No.5, pp.179-182

TEXT: Three Russian words are discriminated by the machine described here: "odin" ("one"), "nol'" ("zero"), "stop" ("stop"). The basic principle is to use a clipping circuit and to determine the density of zero crossings of the resultant waveform; further discrimination is obtained by number of syllables. A reliability greater than 99% was claimed for ten subjects of both sexes, each dictating thirty words both normally and whispered. The machine does not reject words not in the given vocabulary which may have similar characteristics to the three words included. This would be an important problem to solve. Acknowledgments are expressed to A.A.Kharkevich for his advice. There are 5 figures and 14 references: 6 Soviet, 1 French and 7 English.

SUBMITTED: May 23, 1960

Card 1/1

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1

TSEMEL', G. I., Cand. Tech. Sci. (diss) "Investigations on
Objective (Automatic) Perception of Sounds of Speech," Moscow,
1981, 15 pp. (Moscow Elec. Engr. Inst. of Communications) 250
copies (KL Supp 12-81, 276).

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1"

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28586
S/562/61/000/010/006/007
E140/E435

AUT. R: Tsemel', G. I.

TITLE: Objective recognition of a limited vocabulary of sounds and words

SOURCE: Akademiya nauk SSSR. Laboratoriya sistem peredachi informatsii. Problemy peredachi informatsii. no. 10. 1961, 57-62

TEXT: The author finds that his previously announced programme for automatic recognition of the three words "zero, one, stop" (in Russian) by a simple device counting zero crossings of a clipped audiosignal (Ref. 2; Izv. AN SSSR. OTN. Energetika i avtomatika no. 5, 1960) is unsuccessful for a number of reasons. The device merely distinguishes between the given three words without recognizing them, i.e. other words spoken in the laboratory or even nonverbal noise could cause the device to react inappropriately. The author therefore finds that machine recognition of oral instructions is rather remote. A more realistic and more ambitious programme of phoneme recognition has therefore been undertaken. The present article describes only the recognition

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Objective recognition of ...

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of the initial "t" in the syllables tu, to, ta, ty, te. As shown in Fig.1, the audiosignal from the microphone is first clipped and then the following operations are performed. The number of pulses N in the initial segment of duration t_H and the total duration t of the corresponding noise pulse are measured. The duration t_H is defined a priori from oscillogram analysis, while the termination of the time t is defined by detection of a clipped audiosignal of longer duration than those considered proper to the phoneme 't' itself. As shown in Fig.2, the region of phoneme 't' is bounded by prescribed values of M , N_1 , N_2 and of t , t_1 , t_2 . The following parameters were employed: $t_H = 8 \text{ msec}$, $N_1 = 8$, $N_2 = 20$, $t_1 = 8 \text{ msec}$, $t_2 = 32 \text{ msec}$ and the pulse duration terminating 't' was taken to equal 1 msec. It is stated that the reliability of the system can be increased if the pulse counters operate in decimal rather than binary, which is claimed to permit closer adjustment of the parameters N and t . No statistics are given but high reliability of the circuit is claimed. It is also suggested that except for the logical block immediately preceding the output, the

X

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Objective recognition of ...

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E140/E435

circuit can be used for measuring the parameters M and t for other phonemes, for which these characteristics are necessary but not sufficient in the recognition process. In conclusion, the author admits that the use of clipped audio-signal may not be adequate for a complete solution of the problem. Acknowledgments are expressed to A.A.Kharkevich for advice and to N.N.Kulikov for participation in tests. Academician L.V.Shcherba is mentioned in the paper. There are 2 figures and 5 references: 4 Soviet and 1 non-Soviet. The reference to an English language publication reads as follows: J.Wiren, H.Stubbs. J. Acoust. Soc. Amer., v.28, no.6, 1956.

SUBMITTED: August 30, 1960

Card 3/4

X

24-1-24 12-4 Th-4 Tk-4, 11-4 DCP(S)

BB/US

ACCESSION NR: AT4049774

S/2945/64/000/016/0057/004.8

47
48
B41

AUTHOR: Teitel', G.I.

TITLE: Recognition of a small set of words by the significant features of the speech signal

SOURCE: AN SSSR. Institut problem peredachi informatsii. Problemy* peredachi informatsii, no. 16, 1967. (Trudy na voprosy teorii informatsii) [Theory of information transmission], 57-68

TOPIC TAGS: information transmission, speech recognition, verbal signal, phoneme

ABSTRACT: The paper develops the method of speech recognition by dividing a speech signal into segments each having a combination of significant features. The problem

automatic recognition of words is solved by combining the significant features of phonemes can be used for

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L 25091-65

ACCESSION NR. AT4049774

growth, zero density, low-frequency characteristic, the duration of a homogeneous segment, signal energy, turbulence, and steadiness. A scheme for the recognition of a set of words is developed and illustrated by an example. The following set of significant features of a speech signal was experimentally investigated: The presence of low-frequency energy (up to 500 cps), the presence or magnitude of energy (above 450 cps) low-frequency character of the signal as determined by the low-frequency and high-frequency energy difference, the mean density of noise above a 3 kcps frequency range, the intensity of the signal envelope, and the duration of signal segments. A machine for separating the significant features of speech signals used in the investigation is described. The threshold values of the significant features are discussed and established. Described is also the distribution of sets of the investigated

L 25091-65

ACCESSION NR: AT4049774

..... small sets of words and perhaps, for a preliminary division of speech
..... F Stepanov took part in the experimental

ASSOCIATION: none

ENCL: 00

SUB CODE: DP

SUBMITTED: 02.7.63

OTHER: 010

NO REF Sov: 000

Card 3/3

TSEMEL', G.I.

Recognition of voiceless fricatives in a clipped speech
signal. Probl. pered. inform. 1 no.4:33-40 '65. (MIRA 18:12)

1. Submitted March 30, 1965.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1

TSEMEL', G.I.

Recognition of a small set of words using the characteristic
signs of the speech signal. Probl. pered. inform. №.16;
(MIRA 17:12)
57-68 '64.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930009-1"

ACCESSION NR: AT4008647

S/2945/63/000/015/0017/0079

AUTHOR: Tsemel', G. I.

TITLE: An increase in the reliability of recognition of speech sounds through the introduction of reiteration

SOURCE: AN SSSR. Institut problem peredachi informatsii. Problemy* peredachi informatsii, no. 15, 1963. Sistemy* raspredeleniya informatsii. Opoznnaniye obrazov, 77-79

TOPIC TAGS: sound recognition, speech sound recognition, sound recognition reliability, speech signal, sound pronunciation, sound recognition computer, perceptron

ABSTRACT: The iteration proposed in the article performs a function analogous to a request, made during the course of a conversation, to repeat a word that was not clearly heard. The use of such a reiteration in machines designed to recognize speech sounds was already dis-

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ACCESSION NR: AT4008647

cussed by the author in an earlier paper (Problemy peredachi informatsii, no. 10, AN SSSR, 1961) and is illustrated by means of an example, which shows that out of a total of tested 1320 words, 214 out of 276 words beginning with "m" were recognized correctly without reiteration, and 45 out of the remaining 62 were recognized correctly after reiteration. This increase in efficiency of recognition (from 72.6 to 93.8%) indicates the advantages of reiteration, which can be introduced into the equipment without great increase in complexity. Orig. art. has: 1 figure.

ASSOCIATION: Institut problem peredachi informatsii AN SSSR (Institute of Information Transmission Problems, AN SSSR)

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